



KING COUNTY
ENGINEER III
DEPARTMENT OF TRANSPORTATION
ROAD SERVICES
TRAFFIC SYSTEMS DESIGN
Hourly Range: \$31.15 - \$39.48
Job Announcement: 06SB5849
OPEN: 2/13/06 CLOSE: 2/28/06

WHO MAY APPLY: This position is open the general public.

WHERE TO APPLY: Required forms and materials **must** be sent to: **Scott Bruns, Road Services Division, 201 Jackson Street, MS KSC-TR-0313, Seattle, WA 98104.** Applications materials must be received by 4:00 p.m. on the closing date. (Postmarks are NOT ACCEPTED.) Contact (206) 263-6137 for further inquiries. **PLEASE NOTE:** Applications not received at the address specified above will not be processed.

FORMS AND MATERIALS REQUIRED: (A) [King County Application](#), (B) resume and letter of interest detailing your background and describing how you meet or exceed the qualifications and required knowledge, skills, and abilities of the position, and (C) names and phone numbers for a minimum of three references of current and former supervisors within the past four years.

WORK LOCATION: 201 S. Jackson Street, downtown Seattle and some field work throughout King County

WORK SCHEDULE: 8:00 AM – 5:00 PM Monday – Friday; 40 hours a week. This position is non-exempt from the Fair Labor Standards Act and is overtime eligible and may be mandatory.

PRIMARY JOB FUNCTIONS: Leads a group of engineers who provide traffic analysis and design functions assists in the development and management of the Signal Optimization Program; performs traffic modeling, level of service analyses and writes technical reports/memorandums. This position oversees operations of the Traffic Control Center (TCC) and provides supervisory responsibility over subordinate staff including professional engineers, signal technicians assigned temporarily to the TCC, and technical staff. Specific duties and responsibilities include:

- Plan and develop traffic engineering studies.
- Supervise the work of assigned staff by performing the following personnel functions, as determined by section or division management: hiring, providing training, conducting performance evaluations and coordinating or determining work assignments.
- Approve engineering designs for assigned work unit or projects.
- Direct the investigation and troubleshooting of engineering and system problems.
- Develop, initiate and monitor cost scheduling/project control systems/methods to monitor expenditures and project milestones and completion dates.
- Participate in the review and evaluation of complicated plans and specifications.

- Supervise the preparation of bid specifications and other documents; participate in the bid or qualification process and negotiate final contract.
- Provide the final review or be responsible for the technical quality assurance of policies, procedures and standards for assigned technical.
- Negotiate contract scope, budget and schedule.
- Provide technical support for negotiation of interagency or local agreements.
- Prepare cost and scheduling analysis reports for multiple projects and act as technical resources to project managers on project schedule and budget.
- Make presentations to elected officials, community groups and general public on projects.
- Act as project manager for assigned projects from conception to implementation.

REQUIRED KNOWLEDGE, SKILLS & ABILITIES:

- Advanced knowledge equivalent to a bachelor's degree in civil or traffic/ transportation engineering, and, experience that provides the applicant with the knowledge and skills to perform the essential work of this position.
- Skill in management technique, budgeting, interagency coordination, etc.
- Advanced knowledge of road design and traffic engineering techniques and principles and practices.
- Advanced knowledge of MUTCD, FHWA, and AASHTO Guidelines, KCRS, WSDOT Design Manual, and (desirable) ITE Recommended Practices.
- Advanced knowledge of federal, state and local laws, regulations and procedures related to traffic engineering, development review and approval, and transportation planning.
- Knowledge of personal computer applications for word-processing, spreadsheets, and databases.
- Advanced knowledge of traffic analysis for the design of corridors and intersections. Skills in the use of Synchro, SimTraffic, aaSIDRA and EMME/2 models. Advanced knowledge and applications of traffic signal systems software including ICONS and ACTRA.
- Knowledge in the development and implementation of signal timing plans for County and City signals.
- Ability to investigate and write grant applications for ITS, capacity and operational improvement projects.
- Advanced knowledge in transportation planning functions: modeling, land-use, screenlines, etc.
- Ability to write scopes and schedules for traffic analysis projects. Ability to work independently review Consultant submitted scope, schedule and fee proposals.
- Knowledge of supervisory techniques and principles.
- Skill in preparing and interpreting technical reports.
- Strong oral communications skills.
- Strong written communications skills as evidenced by technical and business writing, including but not limited to: clear and concise technical reports and studies, project review status reports, and memoranda.
- Effective decision-making skills.
- Skill in working cooperatively within a multi-disciplinary team: land use planners, environmental planners/engineers, traffic engineers, civil engineers, etc.
- Skill with effective public relations.

- Ability to effectively engage in cooperative analysis, decision-making, and problem-solving with co-workers/ team members, the public, development industry customers, and supervisory personnel in "traditional" and "matrix organization" environments.
- Knowledge and ability in the use of effective and proactive conflict resolution techniques, for a variety of technical and non-technical matters.
- Ability to effectively manage multiple projects and priorities under close deadlines and changing priorities.
- Ability to work independently and in a team environment.
- Ability to establish and maintain effective working relationships with peers, project leads, and supervisors.
- Ability to have predictable and reliable attendance.

NECESSARY REQUIREMENTS: Valid Washington State Drivers License required. The selected candidate will be required to pass a physical examination prior to an offer of employment being made.

UNION MEMBERSHIP: This position is represented by the International Federation of Professional and Technical Engineers, Local 17A.

CLASS CODE: 8509 SEQ: 0619